ARM Processor incorporates a processor core and others

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创建时间： 8/13/2015 9:10 **更新时间：** 8/13/2015 20:39
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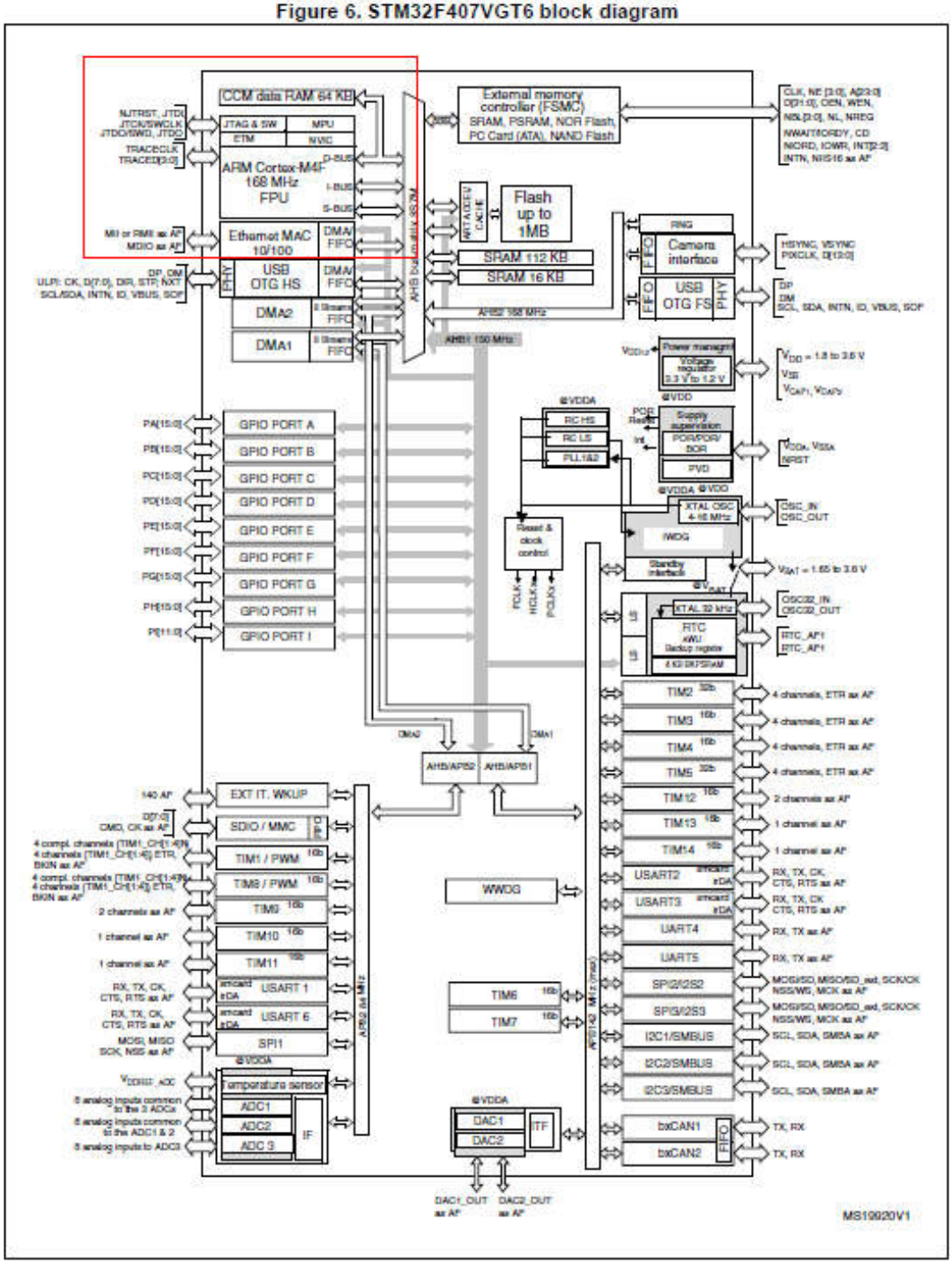
Figure 6. STM32F407VGT6 block diagram



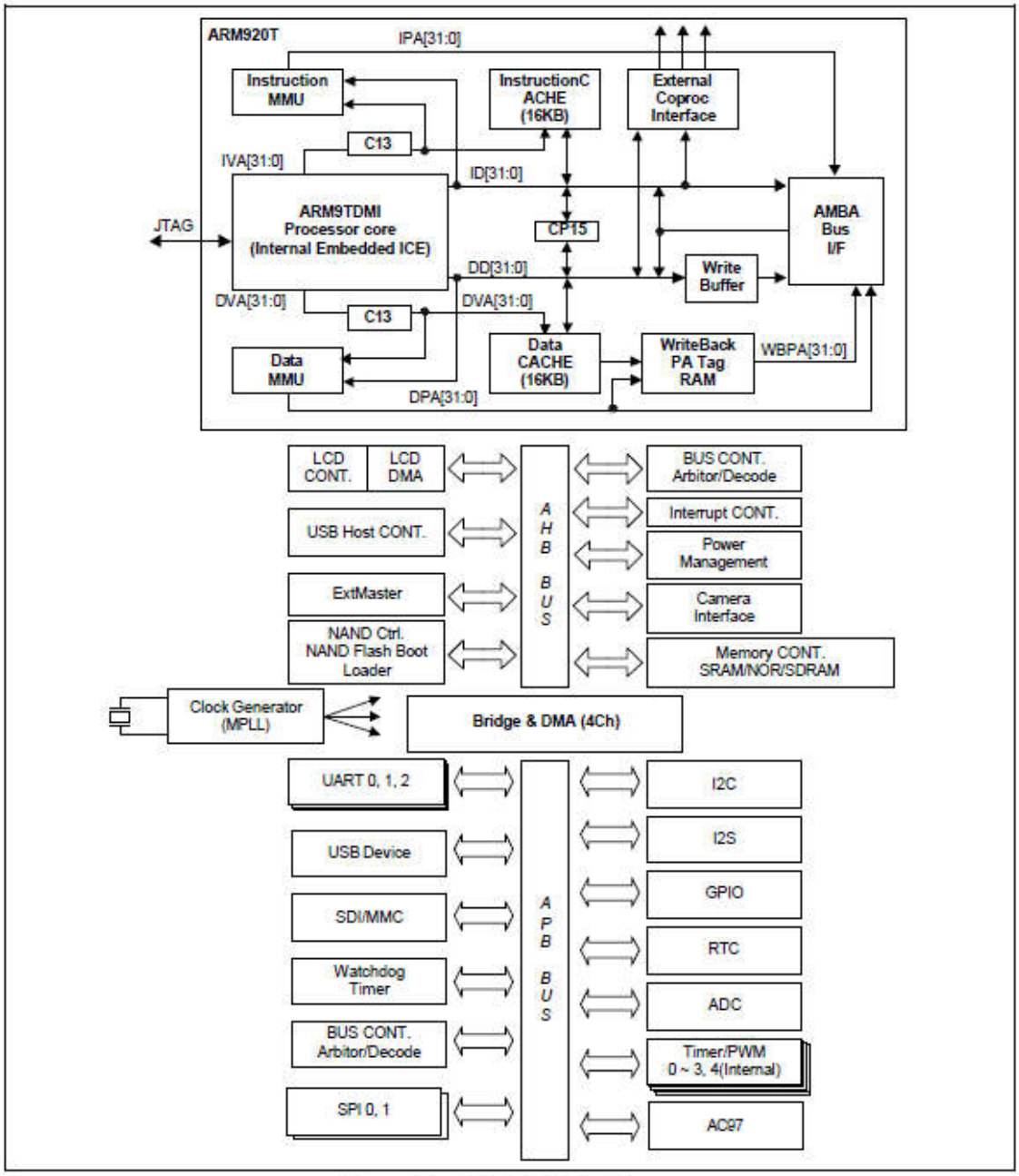
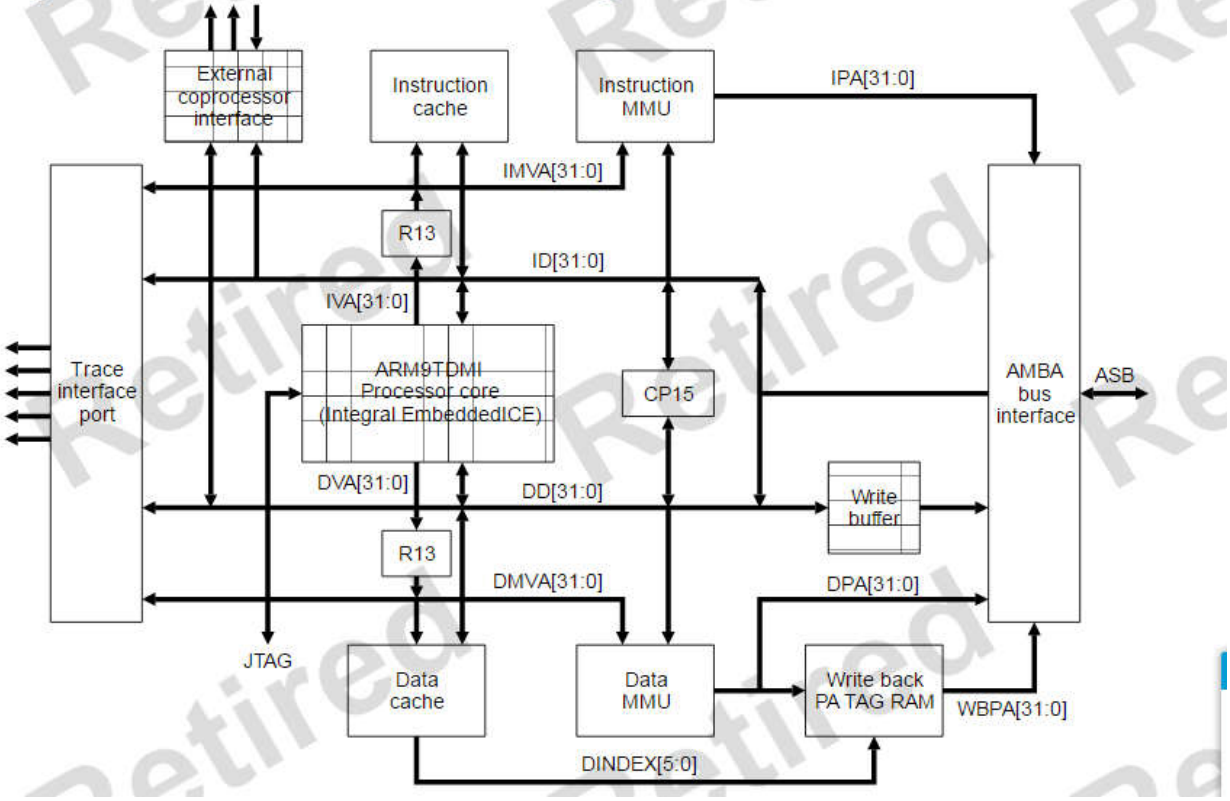


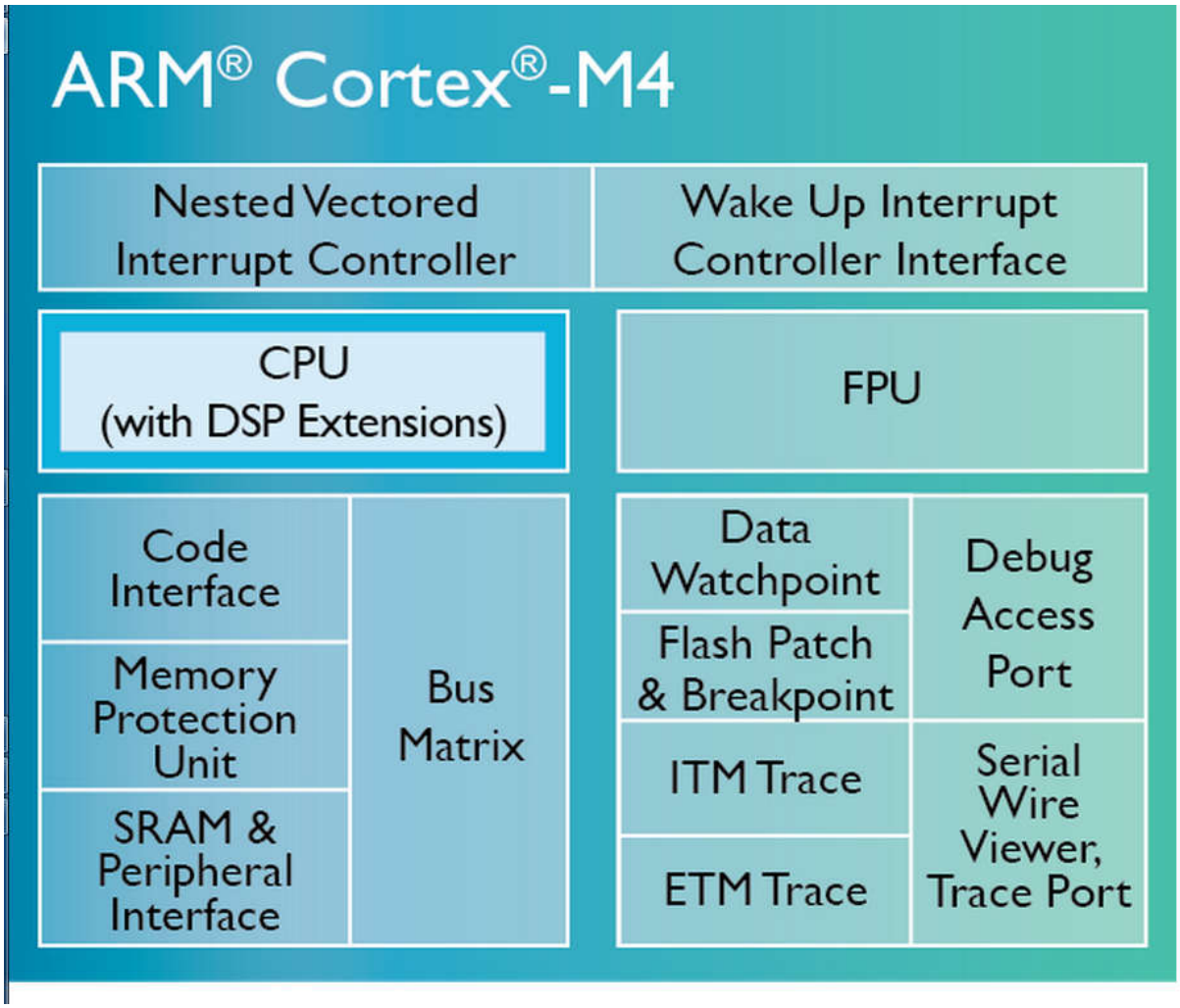
Figure 1-1. S3C2440A Block Diagram

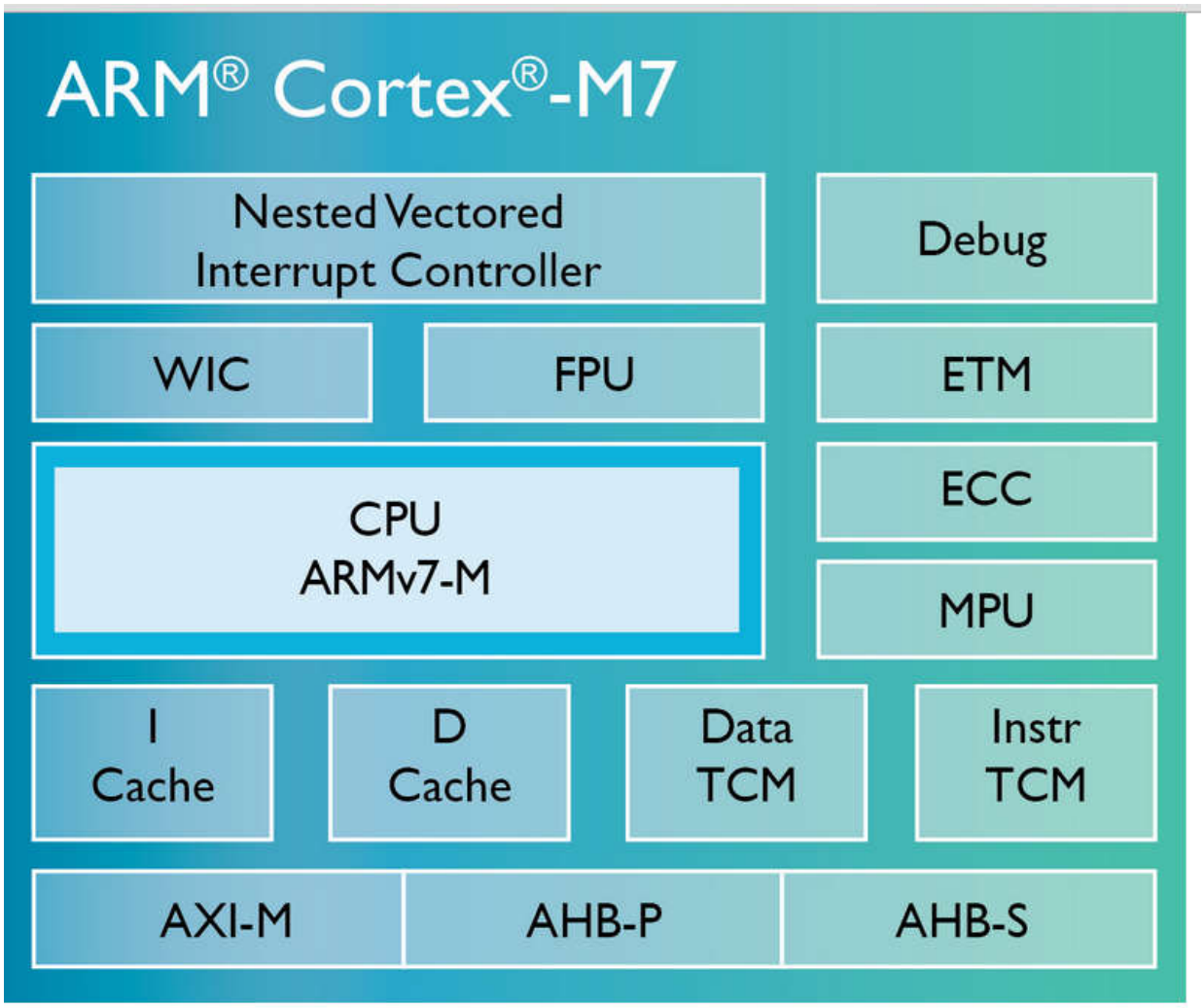
1.2. Processor functional block diagram

Figure 1.1 shows the functional block diagram of the ARM920T processor.

Figure 1.1. ARM920T functional block diagram




ARM® Cortex®-M4
Nested Vectored Interrupt Controller
Wake Up Interrupt Controller Interface
CPU (with DSP Extensions)
FPU
Code Interface
Memory Protection Unit
SRAM & Peripheral Interface
Bus Matrix
Data Watchpoint
Flash Patch & Breakpoint
Debug Access Port
ITM Trace
ETM Trace
Serial Wire Viewer, Trace Port


ARM® Cortex®-M7
Nested Vectored Interrupt Controller
Debug
WIC
FPU
ETM
CPU ARMv7-M
ECC
MPU
I Cache
D Cache
Data TCM
Instr TCM
AXI-M
AHB-P
AHB-S